SONY

BID SPECIFICATION
FOR
BROADCAST CRT MONITORS

MODEL NUMBER
BVM-D20F1U

INSTRUCTIONS:
REMOVE THIS COVER PAGE AND ADD TO REQUESTS FOR QUOTATION AND PROPOSALS. THE OBJECTIVE OF THIS BID SPECIFICATION IS TO ASSIST YOU IN CLEARLY SPECIFYING THE SONY PRODUCT IDENTIFIED ABOVE, AND ENSURING THAT THE BUYER IS WELL INFORMED OF THE HIGH STANDARD OF PERFORMANCE THAT IS TO BE EXPECTED OF A SONY PRODUCT. THE INFORMATION IN THIS DOCUMENT IS CURRENT AS OF JUNE 2002. PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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1.0 General Information

The purpose of this information is to provide the specification for a product whose primary purpose is the reproduction of video information for one or more viewers.

This reproduction of this information is to be accomplished via a direct-view CRT monitor. This document provides the minimum specifications for this device.

The performance comparison of displays is not only technical in nature, but is also subjective to the user, when viewed in the final display environment. It is recommended that devices meeting the requirements of this specification be compared in the user's application and environment, if possible.

2.0 Description

This product shall be classified as a direct-view CRT color monitor, or production display. This device shall be directly compatible with video sources, without the use of external devices to provide this compatibility.

This device shall employ the use of an HR Trinitron CRT for optimum display of high-resolution sources.

This device shall employ a shape that allows for rack mounting in a 19" EIA standard rack, using an optional rackmount kit. This device shall be encased in a metal enclosure for durability.

3.0 Source Compatibility / Suitability for Application

3.1 Compatible Display Formats

SMPTE 170M NTSC
SMPTE 240M 1035 line HDTV
SMPTE 274M 1080 line HDTV
SMPTE 296M 720 line HDTV
SMPTE 145 type C phosphor standard
ITU 601 colorimetry
ITU 709-2 colorimetry

3.2 Compatible Input Formats

SMPTE 170M NTSC Composite
ITU 601 PAL Composite
SMPTE 259M 525/625 Component serial digital video
SMPTE 292M HD Component serial digital video

4.0 User Interface / Controllability Information

Control of this device shall be accomplished through one of the following methods:

Parallel Remote Control
RS-485 Serial Control

This device shall provide a Type II PCMCIA card slot to store monitor settings locally.

The optional parallel remote control shall provide access to all monitor setup functions.

The serial control jack shall employ the use of a standardized device control protocol that is understood by external control unit available as an accessory. This control jack shall accept bi-directional serial commands that provide full control over the device.

All monitor control functions shall be available for control through the serial control jack. This jack shall be capable of connection to an optional serial controller that is capable of controlling up to 32 monitors. This optional controller shall be capable of storing monitor settings using a Type II PCMCIA flash card.

Monitor control functions also include auto white balance setup using Minolta, Philips, Thoma, and Grasby light probes.

5.0 Performance Specifications

This device shall employ the use of an HR Trinitron CRT with a minimum CRT resolution of 1000 lines in 16:9 mode and 1000 lines in 4:3 mode. The CRT shall employ the use of SMPTE-C phosphors.

This device shall be equipped with color temperature alignment system for easy set-up with industry standard color analyzers. Different colorimetery settings shall be able to be recalled for ITU or SMPTE production or film applications.

This device shall employ built-in auto setup, allowing for automatic adjustment of chroma and phase.

This device shall include digital uniformity correction, allowing for complete field uniformity in the image area.

This device shall provide color temperature stability using a beam current feedback circuit.

This device shall employ on-screen display of time code for editing and duplication references.

This device shall support switchable aspect ratios of 4:3 and 16:9, and shall offer a 4:3 area marker.

This device shall provide beam landing correction to compensate for changes in the terrestrial magnetic field in different operating environments.

This device shall include digital point convergence for complete RGB convergence accuracy within the image area. A built-in test pattern generator shall be included for assistance in convergence and other monitor setup functions.

6.0 Dimensional Information

This device shall employ the use of a 20" diagonal (19" viewable) CRT.

This device shall have maximum cabinet dimensions of 16.38 inches high by 17.5 inches wide and 22.5 inches deep.

This device shall not weigh more than 84 pounds.

7.0 Connectivity Information

This device shall provide for direct connection of a single source device, and shall be built with expansion capabilities (4 slots) for additional source devices, with a maximum of 25 directly connected sources. This connection shall include the following:

Component Video or RGB Video on BNC Connectors with loop-through

Optional source connections shall include the following:

Composite Video on a BNC Connector with loop-through

S-Video on two BNC Connectors with loop-through

Component Video or RGB Video on BNC Connectors with loop-through

SDI Video on a BNC Connector with loop-through

HD-SDI Video on a BNC Connector with loop-through

8.0 Power Requirements

This device shall accept power at 100 - 240 VAC at either 50 or 60 Hz.

This device shall consume no more than 210 watts.

Power to this device shall be supplied via a detachable standard power cord that is readily available for replacement from local suppliers.

9.0 Safety Compliance Information

This device shall be fully compliant with the following standards:

UL 1950
CSA 950 (cUL listed)
FCC Class-A
IC Class-A
DHHS
DNHW

10.0 Warranty Information

This device shall carry a 2-year manufacturer's warranty. Authorized servicing dealers of the devices' manufacturer shall perform warranty service.